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ABSTRACT

This film list compiled by the U.S. Naval Oceanographic Office is separated into six categories: general oceanography, biology, chemistry, engineering, geology, and physics. An index of films is followed by addresses of Naval Districts and lists of distribution centers. Each film listed is described as to content, running time, type of film, audience level. Sources of and procedures for buying or borrowing the films are given. (BB)

ED0 45433

FILMS ON OCEANOGRAPHY

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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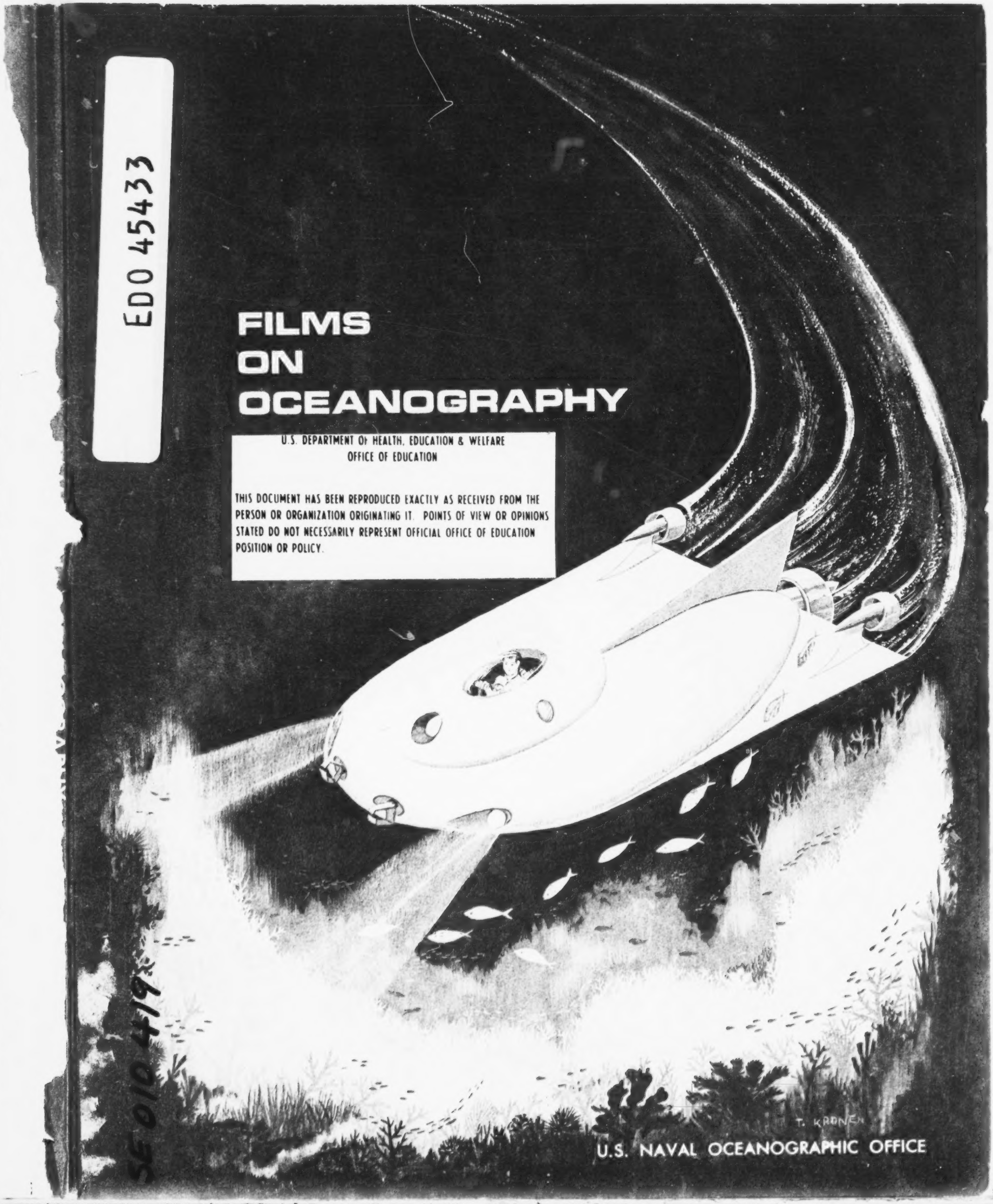

SE 010 419

U.S. NAVAL OCEANOGRAPHIC OFFICE

The National Oceanographic Data Center is sponsored by U.S. Government agencies having an interest in the marine environment; it is governed by an Advisory Board composed of representatives of these activities and the National Academy of Sciences. The U.S. Naval Oceanographic Office is assigned responsibility for management of the National Oceanographic Data Center.

The sponsoring agencies are:

Atomic Energy Commission

Bureau of Commercial Fisheries

Coast Guard

Coastal Engineering Research Center

Department of the Navy

Environmental Science Services Administration

Federal Water Pollution Control Administration

Geological Survey

Health, Education & Welfare

National Science Foundation

1969

EDO 454433

NATIONAL OCEANOGRAPHIC DATA CENTER

FILMS ON OCEANOGRAPHY

By

R.P. Cuzon du Rest

CATALOG SERIES
PUBLICATION C-4

1969

Published by the
U. S. Naval Oceanographic Office

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For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402 - Price $1

I. GENERAL OCEANOGRAPHY

S.S. NOOK

A CAREER IN OCEANOGRAPHY

Describes the work of the oceanographer, the characteristics needed by an individual interested in a career in this field, including the length and type of specialized training. Gives information on various employment opportunities, working environment, and kind of oceanographic research undertaken by each discipline. The narrative booklet accompanying this film strip includes a list of universities offering degrees in oceanography or related training.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Ave.
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

CAREERS IN OCEANOGRAPHY

As the expanding world population turns to the sea for additional resources, crops, minerals, and energy, this film shows the types of research and activities that await the future oceanographer in the laboratory or aboard ship and the equipment available to assist him.

Movie, 16 mm, color, sound, 1966

Running time: 28 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10063

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

CHALLENGE OF THE OCEANS

Reviews the main instruments and techniques used in oceanography. Provides a comprehensive introduction to oceanography.

Movie, 16 mm, B&W or color, sound, 1960

Running time: 29 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $ 90.00
Color $165.00

VIEWING NOTES:

CHALLENGE OF THE SEA

Provides a general coverage of oceanography, emphasizing its importance to the Navy. Good film, best used as an introduction to the subject.

Movie, 16 mm, color, sound, 1963

Running time: 23 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10021

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

CONQUERING THE SEA

Anticipates some of the directions which progress in oceanography may take by the year 2000. Man will be able to breathe through artificial gills, valuable minerals will be recovered from the sea, and habitations will be constructed under water.

Movie, 16 mm, color, sound, 1967

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Modern Talking
Picture Service*

Price: Available on free loan.
Can also be purchased for $300.00 from:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

VIEWING NOTES:

EXPLORING THE OCEANS

Briefly reviews many salient points of oceanographic research, techniques used in sampling the sea floor, biological features, and types of resources that can be found in the marine environment.

Movie, 16 mm, B&W and color, sound, 1961

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Churchill Films
662 North Robertson Boulevard
Los Angeles, Calif. 90069

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

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*List of distribution centers on page 98.

INDIAN OCEAN EXPEDITION

Introduces the International Indian Ocean Expedition, in which 20 countries and 40 ships participated, and defines its goals. Explains the purposes and demonstrates the techniques by which oceanographic data are collected. Emphasizes some of the immediate and long-range benefits of oceanographic research.

Movie, 16 mm, B&W, sound, 1963

Running time: 20 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Information Service of India
(Embassy of India)
National Press Bldg.
14th & F Streets N.W.
Washington, D.C. 20004

Price: Available on free loan

VIEWING NOTES:

MAN INVADES THE SEA

Presents recent attempts and achievements of man in entering the underwater world. Some famous oceanographers and pioneers express their opinions on problems connected with studying the oceans.

Movie, 16 mm, B&W, sound, 1966

Running time: 28 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N. Y. 10036

Price: $165.00

VIEWING NOTES:

MARINE RESOURCES

Deals with the sea as a source of food, minerals, and a medium for the transportation of men and goods. Includes a discussion of the obstacles that interfere with an efficient utilization of the oceanic resources, especially the lack of knowledge and of proper techniques. Desalinization problems and potential uses are explained. Presents relationship of fish populations to the catch. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

MISSION OCEANOGRAPHY

Introduces the world of oceanography, showing developments in oceanographic endeavors and research, including SEALAB I, FLIP, NOMAD buoys, TRIESTE, etc., and tells of the growing importance of the marine sciences for national defense and welfare.

Movie, 16 mm, color, sound, 1966

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs of your Naval District*

When requesting, refer to:
MN-10145

Price: Available on free loan

VIEWING NOTES:

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*Addresses on page 97

OCEANOGRAPHERS IN POLAR REGIONS

Relates the story of oceanographic research conducted in the Arctic and the Antarctic.

(Not previewed)

Movie, 16 mm, color, sound, 1968

Running time: 28 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10301

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

OCEANOGRAPHIC PREDICTIONS SYSTEMS

Introduces the many approaches used in oceanography to facilitate surface navigation and make it safer. Special emphasis is given to ice and wave forecasting.

Movie, 16 mm, color, sound, 1967

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs of
your Naval District*

When requesting, refer to:
MN-10167

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

OCEANOGRAPHIC RESEARCH WITH THE COUSTEAU DIVING SAUCER

Stresses the importance of a knowledge of the environment for Navy operations, presenting some of the techniques that can be used to obtain this knowledge. Most of the sequences, however, are devoted to the use of the diving saucer for in situ observations. Well-known scientists are shown investigating a wide variety of problems that may be solved with the saucer.

Movie, 16 mm, color, sound, 1966

Running time: 26 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10363

Price: Available on free loan

VIEWING NOTES:

OCEANOGRAPHIE MEDITERRANÉENNE

Centers on food cycles in the Mediterranean, showing the organisms from the plankton, nekton, and benthos in their natural habitat or in the laboratory, along with some of the research techniques.

Movie, 16 mm, color, sound, made after 1965

Running time: 32 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Society for French-American
Cultural Services and Educational Aids
972 Fifth Avenue
New York, N.Y. 10021

Price: Available on free loan

VIEWING NOTES:

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*Addresses on page 97

OCEANOGRAPHY; SCIENCE FOR SURVIVAL

Outlines the participation of U.S. Government agencies in the Oceanographic Program. Emphasizes the role of oceanography in national defense. Shows the importance of ocean studies for our understanding of the world around us. Major techniques and new developments are presented. A predictable ocean with all subsequent benefits is shown as the goal.

Movie, 16 mm, color, sound, 1964

Running time: 42 minutes or
28.5 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-9835 (complete version)
MN-9835A (condensed version)

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

PATHFINDER FROM THE STARS

Traces man's progress in methods of accurate position determination on land, at sea, and in the air, from antiquity to the present. Scientific and economic benefits of satellite triangulation systems are presented. This film is of particular interest to oceanographers in the possible application of the systems as a reference base for accurate position-fixing at sea.

Movie, 16 mm, color, sound, 1967

Running time: 48 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Modern Talking Picture
Service*

Price: Available on free loan

VIEWING NOTES:

*List of distribution centers on page 98

SCIENCE OF THE SEA

Demostrates importance of the water cycle and of the sea-atmosphere relationship in weather prediction. Shows collection and analysis of water samples and application of the results to the study of water mass distribution. Explains the principles of the food chain. Dredging and coring operations, techniques used for determination of bottom topography and the deep water are also presented.

Movie, 16 mm, color, sound, 1958

Running time: 19 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
International Film Bureau, Inc.
332 South Michigan Avenue
Chicago, Ill. 60604

Price: $195.00

VIEWING NOTES:

SCIENCE OF THE SEA

This teaching kit consists of eight film strips, titled ROCKY SHORES, SANDY BEACH, OPEN COAST, OPEN SEA, SEA ODDITIES, SCIENCE OF THE SEA, FIELD TRIP TO THE SEA SHORE, and SOUNDS OF THE SEA. The strips SCIENCE OF THE SEA and SOUNDS OF THE SEA are accompanied by a sound narrative. Texts for all these film strips are contained in a study guide.

Film strips, color, sound, 1963

Running time: Undetermined

Audience: Elementary schools

OBTAINABLE FROM:
Bailey Films, Inc.
6509 de Longpre Avenue
Hollywood, Calif. 90028

Price: $65.50

VIEWING NOTES

SCIENTIST IN THE SEA

Illustrates the various tasks that can be performed by an underseagoing oceanographer. A diver studying current flow, placing instruments, and observing effects of corrosion and rate of sediment deposition, is also shown.

Movie, 16 mm, color, sound, 1967

Running time: 17 minutes

Audience: Primary schools
Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10320

Price: Available on free loan

VIEWING NOTES:

SHIP EXPLORER OCEANOGRAPHIC CRUISE 1960

Presents cruise of the EXPLORER from Seattle to the North Atlantic through the Panama Canal, with a demonstration of the oceanographic work being carried out while under way. Shows a plankton net, current meter, underwater camera, dredge, magnetometer, and reversing water bottles in operation. Good introduction to field work. Interesting underwater scenes of instruments and of sea bottom.

Movie, 16 mm, color, sound, 1961

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
ESSA
Washington Science Center
Rockville, Md. 20852

When requesting, refer to:
P-1056-30

Price: Available on free loan

VIEWING NOTES:

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*Addresses on page 97

THE COUNT-DOWN UNDER

Reveals some of the possibilities offered by the oceans to the world of tomorrow: harnessing of tidal power, aquaculture, development of petroleum underwater resources, diamond mining, and undersea living.

Also highlights international cooperation aboard the PIONEER during the International Indian Ocean Expedition.

Movie, 16 mm, B&W, sound, 1964

Running time: 1 hour (two 30-minute reels)

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: $200.00

VIEWING NOTES:

THE DEEP FRONTIER

Tells of the pioneering efforts made to conquer the deep frontier, presenting the most recent technological developments that will help in exploration and understanding of the ocean.

Movie, 16 mm, color, sound, 1967

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Modern Talking
Picture Service*

Price: Available on free loan.
Can also be purchased for $300.00 from:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

VIEWING NOTES:

*List of distribution centers on page 98

THE EARTH; ITS OCEANS

Gives a brief historical account of the development of oceanography. Shows use of echo-sounders and coring devices. Explains origin of sediments, tracking of currents, influence of currents on climate, and importance of oceanographic data for meteorological observations. Presents scenes of fauna and flora and of the exploitation of several natural resources of the sea.

Movie, 16 mm, B&W or color, sound, 1960

Running time: 13.5 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Coronet Instructional Films
Coronet Building
65 East South Water Street
Chicago, Ill. 60601

Price: B&W $ 75.00
Color $150.00

VIEWING NOTES:

THE OCEANS

Provides a simplified description of the oceans with highlights of their features and resources.

Film strip, 35 mm, color, silent (36 frames), 1965

Running time: Undetermined

Audience: Elementary schools
Secondary schools

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: $6.50

VIEWING NOTES:

THE RESTLESS SEA

Gives a complete coverage of all oceanographic phenomena and of their importance to man. Illustrates a number of major concepts. Reviews current investigating techniques. Excellent presentation in photographed and animated sequences of all facets of oceanography.

Movie, 16 mm, color, sound, 1964

Running time: 1 hour (two 30-minute reels)

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Local Bell System representative or affiliated company

Price: Available on free loan

VIEWING NOTES:

THE SEA—LA MER—EL MAR

Excellent commentaries in English, French, and Spanish accompany selected photographs of the oceans and related phenomena. A short but very informative film strip.

Film strip, 35 mm, color, silent (43 frames), 1964

Running time: Undetermined

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
UNESCO Publications Center
317 East 34th Street
New York, N.Y. 10016

Price: $4.50

VIEWING NOTES:

THE SILENT WORLD

A skindiving exploration of the shallows of the Mediterranean, the Red Sea, the Persian Gulf, and the Indian Ocean reveals the beauties of the underwater world.

Movie, 16 mm, color, sound, 1956

Running time: 88 minutes

Audience: Primary schools
Secondary schools
Colleges
General public

OBTAINABLE FROM:
Contemporary Films Inc.
267 West 25th St.
New York, N.Y. 10001

Price: Rental $27.50

VIEWING NOTES:

THE UNKNOWN OCEAN

Describes the Australian participation in the International Indian Ocean Expedition. Emphasizes the benefits of oceanographic research to mankind, especially to the inhabitants of the countries around the Indian Ocean, and the importance of international cooperation for ocean studies. A number of sequences is devoted to typical oceanographic operations and life aboard ship.

Movie, 16 mm, color, sound, 1963

Running time: 27 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Officer
Australian News and Information Bureau
636 Fifth Avenue
New York, N.Y. 10020

Price: $255.00

VIEWING NOTES:

THE WORLD OF COUSTEAU

Shows man's pioneering efforts to survive and work at depths. Conshelf III, 370 feet below the surface, was one of the habitats from which experience was gained in preparing for the eventual occupation of the ocean floor.

Movie, 16 mm, color, sound, 1966

Running time: 48 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Films Incorporated
1144 Wilmette Avenue
Wilmette, Ill. 60091

Price: $500.00

VIEWING NOTES:

WORLD WITHOUT SUN

The diving saucer designed by Capt. Cousteau and his team is used to depict the adventurous exploration of the continental shelf.

Movie, 16 mm, color, sound, 1964

Running time: 93 minutes

Audience: Primary schools
Secondary schools
Colleges
General public

OBTAINABLE FROM:
Contemporary Films, Inc.
267 West 25th St.
New York, N.Y. 10001

Price: Rental $32.50

VIEWING NOTES:

II. BIOLOGY

A TIME OF MIGRATION

Shows the migrations of an anadromous fish, the alewife, from the ocean to the fresh water stream to spawn and the later return of the offspring to the ocean.

Movie, 16 mm, color, sound, 1962

Running time: 13 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Brandon Films Inc.
221 West 55th Street
New York, N.Y. 10019

Price: $165.00

VIEWING NOTES:

ADAPTATION TO A MARINE ENVIRONMENT

Capacity for adaptation is exemplified by a frog from Thailand which can live either in or out of water and also in fresh or brackish water. A series of commented experiments explains how a physiologist determined the mechanisms enabling the frog to withstand these drastic changes.

Movie, 16 mm, color, sound, 1967

Running time: 18 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $ 90.00
Color $175.00

VIEWING NOTES:

ALGAE

Introduces the major algae groups and displays their extraordinary range in size, habitat, and diversity of reproductive means.

Movie, 16 mm, B&W or color, sound, 1964

Running time: 26 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $ 85.00
Color $160.00

VIEWING NOTES:

ATTACK PATTERNS OF SHARKS

Investigates Dr. Perry Gilbert's work on sensory mechanisms of sharks. A series of experiments reveals the relative importance and use of the shark sensory organs in detecting food. Effects of shark repellent are also shown.

Movie, 16 mm, B&W or color, sound, 1966

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $125.00
Color $200.00

VIEWING NOTES:

BEACH AND SEA ANIMALS

Introduces a variety of near-shore vertebrates and invertebrates of the warmer waters with some information on their ecological relationships. Beautiful photography of a number of representative specimens.

Movie, 16 mm, B&W or color, sound, 1957

Running time: 11 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

BETWEEN THE TIDES

Presents life in the intertidal zone and along the seashore. The unusually beautiful photography and effective use of natural sound add considerably to the description.

Movie, 16 mm, color, sound, 1958

Running time: 22 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Contemporary Films, Inc.
267 West 25th Street
New York, N.Y. 10001

Price: $175.00

VIEWING NOTES:

BIOLOGICAL OCEANOGRAPHY

Presents the fundamentals of biological oceanography: the cycle of life in the ocean; the complex interrelationships between plants and animals; the adaptation of organisms to their environment; the productivity of the oceans; also some recent developments. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

CORAL WONDERLAND

Discloses Australia's marine wonderland, showing magnified views of hard and soft corals and the variety of marine life thriving on the island's reefs. Polychaetes, mollusks, anemones, hermit crabs, and various types of fishes are seen, and some of their relationships with the environment are explained. The last part of the film is devoted to sea turtles, with scenes of egg laying and hatching.

Movie, 16 mm, color, sound, 1950

Running time: 30 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Officer
Australian News and Information Bureau
636 Fifth Avenue
New York, N.Y. 10020

Price: $255.00

VIEWING NOTES:

FISH ARE INTERESTING

Introduces the fishes and presents the basis for their classification by means of selected examples.

Movie, 16 mm, B&W or color, sound, 1954

Running time: 10 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Associates of California
11014 Santa Monica Boulevard
Los Angeles, Calif. 90025

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

FISH, MOON, AND TIDES; THE GRUNION STORY

Provides detailed information on the spawning of the grunion, showing the various stages of the development within the egg and also the hatching, by using time-lapse microphotography. Explains by means of animated drawings how the grunion spawning is related to the ocean tides and the lunar cycles. Excellent photography.

Movie, 16 mm, color, sound, 1964

Running time: 15 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Academy Films
748 North Seward Street
Hollywood, Calif. 90038

Price: $150.00

VIEWING NOTES:

FISH OUT OF THE WATER

Shows a grunion spawning along a California beach at night. Emphasizes by means of charts the importance of timing and of selecting a proper location for egg laying. Closeups and photomicrography effectively illustrate the narration.

Movie, 16 mm, B&W or color, sound, 1954

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Education Film Division
Moody Institute of Science
12000 E. Washington Boulevard
Whittier, Calif. 90606

Price: B&W $ 50.00
Color $100.00

VIEWING NOTES:

GULF OF MEXICO SHRIMP TRAWLS

Demonstrates by means of underwater scenes the relationship between trawl configuration and performance, how the towing speed affects the shape of the net and its fishing ability, and some of the problems inherent in bottom trawling.

Movie, 16 mm, color, sound, 1961

Running time: 30 minutes

Audience: Specialists

OBTAINABLE FROM:
Exploratory Fishing and Gear Research Base
Bureau of Commercial Fisheries
Pascagoula, Miss. 39567

Price: Available on free loan

VIEWING NOTES:

ISLAND ODDITIES

Presents the coastal fauna of the Bahama Islands (birds, jellyfish, starfish, octopuses, crabs, etc.) in their natural habitats.

Movie, 16 mm, color, sound, 1952

Running time: 26 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Modern Talking Picture Service
3 East 54th Street
New York, N.Y. 10022

Price: Available on free loan

VIEWING NOTES:

LIFE BETWEEN TIDES

Presents in an imaginative manner representative specimens of marine life along the Pacific Coast of the United States, demonstrating some of the problems encountered by animals in the intertidal zone.

Movie, 16 mm, B&W or color, sound, 1963

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

LIFE IN THE OCEAN

Introduces some of the plants and animals inhabiting the shore, shallow and open waters. Gives basic information on their relationships with each other and with their environment.

Movie, 16 mm, B&W or color, sound, 1965

Running time: 14 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Associates of California
11014 Santa Monica Boulevard
Los Angeles, Calif. 90025

Price: B&W $ 85.00
Color $170.00

VIEWING NOTES:

LIFE IN THE SEA

Presents underwater scenes, including a variety of marine life along the California Coast, microscope views of planktonic forms, mussels, barnacles, sponges, crabs, lobsters, other bottom dwellers, fish, and mammals. Explains how fish utilize the oxygen from the water, showing some of the means of survival possessed by sea animals, also the red tide. Quite informative in spite of its relative shortness.

Movie, 16 mm, B&W or color, sound, 1958

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

MAN LOOKS TO THE SEA

Sequences from dramatic moments in the sea, showing shark attacks, porpoises swimming under water, etc. (Not previewed.)

Movie, 16 mm, color, sound

Personally presented by:

Stanton Waterman

For scheduling, contact:

Stanton A. Waterman
16 Hunter Road
Princeton, N.J. 08540

VIEWING NOTES:

MANAGER OF THE SEA

Gives the fundamentals of fisheries research, showing tagging operations, scale studies, etc., as a means of achieving maximum catch.

Movie, 16 mm, B&W, sound, 1953

Running time: 15 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Institute of Marine Science
University of Miami
Rickenbacker Causeway
Virginia Key
Miami, Fla. 33149

Price: Available on free loan

VIEWING NOTES:

MARINE ANIMALS AND THEIR FOOD

Illustrates the five major types of foods used by animals in the sea--plankton, debris, detritus, seaweeds, and other organisms. In turn barnacles, sea urchins, sea anemones, hermit crabs, abalones, sea slugs, and an octopus are seen feeding. Can be used to introduce a number of important biological concepts.

Movie, 16 mm, B&W or color, sound, 1949

Running time: 8 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Coronet Instructional Films
Coronet Building
65 East South Water Street
Chicago, Ill. 60601

Price: B&W $45.00
Color $90.00

VIEWING NOTES:

MARINE ANIMALS OF THE OPEN COAST

Focuses attention on the macroinvertebrates of the intertidal zone and their adaptation to the environment. Using examples from the Pacific coast, explains what problems the organisms encounter and how they overcome them.

Movie, 16 mm, color, sound, 1963

Running time: 22 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Martin Moyer Productions
900 Federal Avenue E.
Seattle, Wash. 98102

Price: Color $250.00

VIEWING NOTES:

MARINE BORERS

Demonstrates the damages inflicted by marine borers to piers, pilings, boats, etc., and how marine biologists are attempting to minimize this threat.

Movie, 16 mm, B&W, sound, 1953

Running time: 14 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Institute of Marine Science
University of Miami
Rickenbacker Causeway
Virginia Key
Miami, Fla. 33149

Price: Available on free loan

VIEWING NOTES:

MARINE ECOLOGY

Demonstrates the importance of physicochemical factors in the life of marine organisms with examples from the plankton, nekton, and benthos. Emphasizes the importance of sea water for biological processes. Presents a number of ecological and oceanographic concepts along with the types of studies needed. Constitutes an excellent teaching aid for a general oceanography course for nonmajors.

Movie, 16 mm, color, sound, 1963

Running time: 28 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: $300.00

VIEWING NOTES:

MARINE LIFE

Introduces a variety of tropical fish and invertebrates as well as some of the basic concepts of marine ecology that govern their interrelationships.

Movie, 16 mm, color, sound, 1953

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $120.00

VIEWING NOTES:

MARSHLAND IS NOT WASTELAND

Shows the importance of marshes in the productivity of the ocean and emphasizes the need for saving them from destruction.

Movie, 16 mm, color, sound, 1963

Running time: 14 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Roy Wilcox Productions, Inc.
301 Allen Hill
Meriden, Conn. 06450

Price: $125.00

VIEWING NOTES:

MARVELS IN MINIATURE

Introduces the microflora and microfauna of the ocean. Plankton, diatoms, copepods, and some of the littoral benthic forms are shown. The use of microphotographic techniques greatly enhances the interest.

Movie, 16 mm, color, sound, 1950

Running time: 15 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Officer
Australian News and Information Bureau
636 Fifth Avenue
New York, N.Y. 10020

Price: $106.50

VIEWING NOTES:

PLANKTON AND THE OPEN SEA

Introduces the most representative types of plankton, showing how they are collected and studied. Explains some of the relationships that exist between the organisms and their dependence upon the environment.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 19 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $105.00
Color $210.00

VIEWING NOTES:

RETURN TO BIKINI

Presents a survey made by a team of scientists from the Laboratory of Radiation Biology of the University of Washington on the Eniwetok and Bikini atolls where they studied the aftereffects of nuclear tests on the environment, the flora, and the fauna.

Movie, 16 mm, color, sound, 1966

Running time: 23 minutes

Audience: Secondary schools
Colleges
General public
(Available at the popular or at the professional level)

OBTAINABLE FROM:
Audio Visual Branch
Division of Public Information
U. S. Atomic Energy Commission
Washington, D. C. 20545

Price: Available on free loan

VIEWING NOTES:

SEA SHELL ANIMALS, MOLLUSCS

Introduces briefly the mollusks, giving an idea of their variety and way of life, showing them in artificial and natural habitats.

Movie, 16 mm, B&W or color, sound, 1955

Running time: 10 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Associates of California
11014 Santa Monica Boulevard
Los Angeles, Calif. 90025

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

SEASHORE LIFE

Reviews the types of animals inhabiting the seashore of the East Coast of the United States, especially sandy beaches, rock pools, and mud flats, with some information on their mode of life.

Movie, 16 mm, color, sound,
1950

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $120.00

VIEWING NOTES:

SECRETS OF THE UNDERWATER WORLD, THE SECRETS OF LIFE SERIES

Illustrates the natural history of some intriguing fresh and salt water organisms. A male stickleback, diving spider, archer fish, kelpfish, angler fish, decorator crab, etc., are some of the creatures that perform for the camera. Provides excellent examples of the variety of life and habitats found in fresh and salt water.

Movie, 16 mm, color, sound,
1956

Running time: 16 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Walt Disney 16 mm Films
P.O. Box 411
Paramus, N.J. 07652

Price: $160.00

VIEWING NOTES:

SOUNDS IN THE SEA

Provides examples of the variety of sounds encountered in the marine environment. (Not previewed.)

Movie, 16 mm, color, sound, 1968

Running time: 28 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10409

Price: Available on free loan

VIEWING NOTES:

SOUNDS IN THE SEA

Tells the story of fish sound studies, how they were started, and presents some of the techniques used in obtaining these sounds.

Movie, 16 mm, color, sound, 1955

Running time: 16 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Educational Film Division
Moody Institute of Science
12000 East Washington Blvd.
Whittier, Calif. 90606

Price: B&W $ 60.00
Color $120.00

VIEWING NOTES:

*Addresses on page 97

SURVIVAL IN THE SEA; LIFE ON THE CORAL REEF

Illustrates the three regions constituting a reef and their typical fauna. Explains the mechanisms of reef formation. Shows many types of coral.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $125.00
Color $250.00

VIEWING NOTES:

SURVIVAL IN THE SEA; ON THE ROCKS

Describes coral types and the community living within that environment. Shows how the organisms are adapted to live and survive in their habitats.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $125.00
Color $250.00

VIEWING NOTES:

SURVIVAL IN THE SEA, THE LIFE CYCLE

Starts with the basic principles of plant growth. Shows the roles played by organisms in the food chain, from dinoflagellates and diatoms to the large carnivorous fish, as well as some of the methods they use in obtaining their food.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $125.00
Color $250.00

VIEWING NOTES:

SURVIVAL IN THE SEA, WHERE LAND AND WATER MEET

Introduces a great variety of material in a cursive but clear manner, demonstrating how animals are adapted to the conditions of life prevalent in their environment. Reviews the possible habitats existing at or near the seashore.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: B&W $125.00
Color $250.00

VIEWING NOTES:

THE BAHAMAS—FROM TOP TO BOTTOM

Concerns the people along the shores and the life in the surrounding waters. (Not previewed).

Movie, 16 mm, color, sound

Personally presented by:

Harry Pederson

For scheduling, contact:

Wayne Short, Lecture Management
1736 Stockton Street
San Francisco, Calif. 94133

VIEWING NOTES:

THE CALL OF THE RUNNING TIDE

Shows scenes condensed from many hours of observations on the reefs among the islands of French Polynesia.

Movie, 16 mm, color, sound

Personally presented by:

Stanton Waterman

For scheduling, contact:

Stanton A. Waterman
16 Hunter Road
Princeton, N.J. 08540

VIEWING NOTES:

THE DOLPHINS THAT JOINED THE NAVY

Presents types of research that Navy scientistis are conducting to learn about dolphins and their sonar system. Shows the handling and care of dolphins and some results of their training.

Movie, 16 mm, color, sound, 1964

Running time: 26 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10199

Price: Available on free loan

VIEWING NOTES:

THE MARINE BIOLOGIST

Describes the activities of the marine biologist in the laboratory and in the field, explaining the importance of research being done. Well documented and well photographed.

Movie, 16 mm, B&W or color, sound, 1963

Running time: 14 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $ 75.00
Color $150.00

VIEWING NOTES:

*Addresses on page 97

THE NOISY UNDERWATER WORLD OF THE WEDDELL SEAL

Gives a first-hand account of the behavior and sounds of marine mammals in their habitat under the ice at McMurdo Sound, Antarctica. The sound track includes typical trills and chirps produced by the seals under water

Movie, 16 mm, color, sound, 1966

Running time: 14 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Sterling Educational Film, Inc.
241 East 34th Street
New York, N.Y. 10016

Price: $120.00

VIEWING NOTES:

THE SEA

Considers the intertidal, benthic, reef, and open water environments with some of their typical organisms. Presents the basic interrelationships between organisms and between organisms and environment. Explains the concepts of food chain and reproduction. Comments and photography are unusually interesting.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 26 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $135.00
Color $270.00

VIEWING NOTES:

THE SHRIMP

Relates the growing importance of commercial exploitation of shrimp resources and related activities.

Movie, 16 mm, B&W, sound, 1953

Running time: 14 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Institute of Marine Science
University of Miami
Rickenbacker Causeway
Virginia Key
Miami, Fla. 33149

Price: Available on free loan

VIEWING NOTES:

THE TIDAL ZONE

Considers the problems of organisms living in the littoral and the factors that affect their distribution.

Movie, 16 mm, B&W or color, sound, 1965

Running time: 14 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Universal Education and Visual Arts
221 Park Avenue South
New York, N. Y. 10003

Price: B&W $ 75.00
Color $150.00

VIEWING NOTES:

THESE SHARKS NEED PROTECTION

Shows how the drop in the catch of edible sharks prompted research and how tagging experiments and other studies helped unravel the mystery of their life cycle and establish the pattern of their migration. Illustrates various fishing methods. Provides information on a little-known aspect of sharks in their relation with man.

Movie, 16 mm, B&W, sound, 1956

Running time: 11 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Officer
Australian News and Information Bureau
636 Fifth Avenue
New York, N.Y. 10020

Price: $30.00
Also available for rental

VIEWING NOTES:

UNDERWATER STORY

After considering the decline in fishing returns in the North Sea, examines some of the basic techniques used in fishery science to solve this problem. Presents tagging operations, migration studies, stomach content analyses, underwater net behavior, etc.

Movie, 16 mm, B&W, sound, 1950

Running time: 21 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Contemporary Films, Inc.
267 West 25th Street
New York, N.Y. 10001

Price: Undetermined

VIEWING NOTES:

VILLAGE BENEATH THE SEA

Through a close observation of marine life, reveals the likes of a small community underwater, with the relationships between each type of organism well regulated. The audience is presented with a fresh view of the pattern of life under the sea.

Movie, 16 mm, color, sound

Personally presented by:

Harry Pederson

For scheduling, contact:

Wayne Short, Lecture Management
1736 Stockton Street
San Francisco, Calif. 94133

VIEWING NOTES:

WOOD PRESERVATION EFFECT ON MARINE ORGANISMS

Reviews the types of wood borers, providing information on their life history and mode of boring. Examples are well illustrated and given a rather thorough treatment. Excellent introduction to the subject.

Movie, 16 mm, color, sound, 1959

Running time: 20 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-8167C

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

III. CHEMISTRY

CHEMICAL OCEANOGRAPHY

Discusses the major constituents of sea water and the trace elements; points out the interesting questions that arise in determining the effects of trace elements on marine biochemical and geochemical processes. Covers composition of sea water and of marine sediments, effects of radioactive wastes, etc. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

NATURE OF SEA WATER

Reviews the major concepts of oceanography, formation and distribution of water masses, oceanic circulation, upwelling, thermocline, etc.

Movie, 16 mm, color, sound, 1967

Running time: 28 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

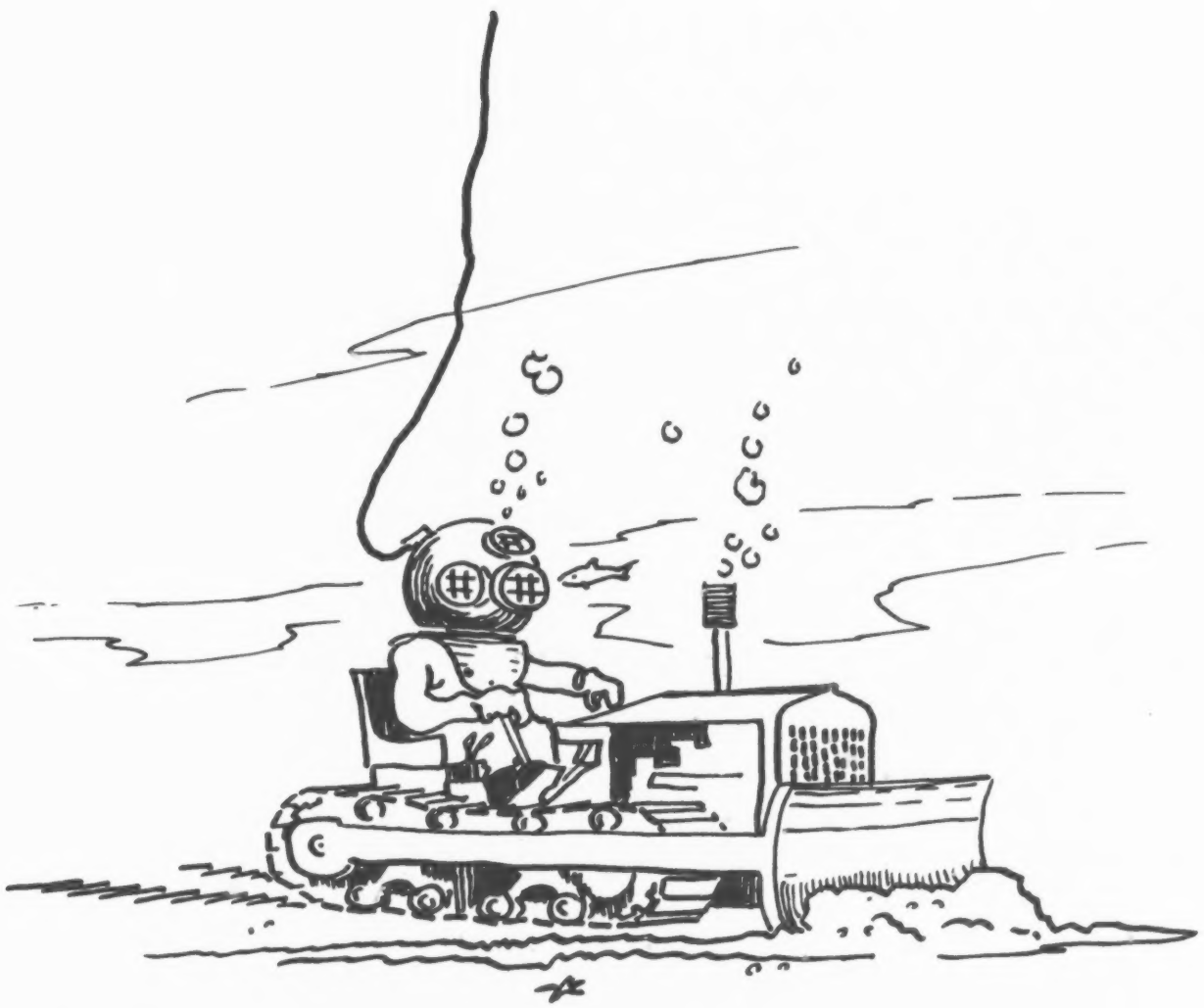
When requesting, refer to:
MN-10317

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

IV. ENGINEERING



A NEW HARBOR FOR CAPETOWN

The damage caused by long waves to moored ships is documented with time-lapse photography, demonstrating the need for new harbor facilities. The variety of engineering and geological studies necessary to determine the proper site of the new harbor is shown in an imaginative way.

Movie, 16 mm, color, sound,
1967

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Ocean Science & Engineering,
Inc.
4905 Del Ray Avenue
Bethesda, Md. 20014

Price: Available on free loan

VIEWING NOTES:

ADMA—FOR SHORT

Describes construction of a drilling platform in a shipyard, from where it was towed to the drilling site. The multiple problems raised by complexity of the operation are also shown.

Movie, 16 mm, color, sound,
1963

Running time: 36 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Radim Film, Inc.
220 West 42nd Street
New York, N.Y. 10036

Price: $275.00

VIEWING NOTES:

BLESSING FROM THE SEA

Emphasizes the importance of phosphorus for life, with a brief review of the geological past. Describes the mining of phosphate ore, a natural marine sediment, and its processing, from the mining site to the loading of phosphates on freighters. Stresses the economic importance of phosphate mining.

Movie, 16 mm, color, sound,
1962

Running time: 20 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Florida Phosphate Council
P.O. Box 985
Lakeland, Fla. 33802

Price: Available on free loan

VIEWING NOTES:

BUDGET SIZE BIKINI

Stepwise account of all the operations connected with shallow water explosions in a testing basin. Shows the instrumentation and procedures followed. Scaled explosions are compared with full-size blasts, to study the behavior of shock wave phenomena and wave characteristics.

Movie, 16 mm, color, sound,
1953

Running time: 14 minutes

Audience: Colleges
General public

OBTAINABLE FROM:
Director
U.S. Army Engineer
Waterways Experiment
Station
P.O. Box 631
Vicksburg, Miss. 39180

Price: Available on free loan

VIEWING NOTES:

CONQUEST OF THE DEEP

Reviews the various methods of drilling and completing underwater wells. Also discusses floating platforms, robot, EUREKA.

Movie, 16 mm, color, sound,
1963

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

CORROSION

Presents some typical corrosion problems encountered by ferrous metal in the atmosphere. Explains how corrosion can be avoided or delayed; stresses the importance of a good surface preparation.

Movie, 16 mm, color, sound,
1962

Running time: 24 minutes

Audience: Secondary schools
General public
Specialists

OBTAINABLE FROM:
The Glidden Paint Company
Union Commerce Building
925 Euclid Avenue
Cleveland, Ohio 44115

Price: Available on free loan

VIEWING NOTES:

CORROSION IN ACTION

Part I: The Nature of Corrosion; Anode and Cathode Processes

Explains ion migration by use of animated diagrams. Also describes the electrochemical theory, oxygen's role in corrosion, and functions of anodes and cathodes.

Part II: Origin and Characteristics of Corrosion Currents

Demonstrates by using laboratory equipment and water analogies how differences in metals or in environment may cause corrosion currents. "Stop motion" photography shows anodic and cathodic areas.

Part III: Passivity and Protective Films

Illustrates through tests how special alloys may be created and used, protective coatings applied, or environment altered to prevent corrosion.

Movie, 16 mm, color, sound, 1952

Running time: 20, 26, and 17 minutes, respectively

Audience: Secondary schools
Colleges

OBTAINABLE FROM:
Rothbacker Incorporated
241 West 17th Street
New York, N.Y. 10011

Price: Available on free loan

VIEWING NOTES:

C S LONG LINES

Provides information on cable-laying operations on the ocean floor. Shows how the C. S. LONG LINES was able to establish a cable connection between Hawaii and Japan with a detour to the Philippines and what steps were taken to make the 5300-mile voyage successful.

Movie, 16 mm, color, sound, 1965

Running time: 28 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Local Bell System representative or affiliated company

Price: Available on free loan

VIEWING NOTES:

Demonstrates the capabilities of DEEP STAR, a new submersible certified to 4000 feet, with scenes of its support ship and its underwater operation.

Movie, 16 mm, color, sound,
1968

Running time: 19 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Modern Talking Picture Service*

Price: Available on free loan

VIEWING NOTES:

Shows the method used in dynamic positioning of the core drilling ship EUREKA.

Movie, 16 mm, color, sound,
1965

Running time: 12 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

*List of distribution centers
on page 98

FLYING AT THE BOTTOM OF THE SEA

Presents the construction and operation of the research submersible ALVIN. Scenes from a typical day at sea with the tender LULU provide an opportunity to demonstrate the main characteristics and capabilities of ALVIN.

Movie, 16 mm, B&W, sound, 1966

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Audio-Visual Center
Indiana University
Bloomington, Ind. 47401

Price: $125.00

VIEWING NOTES:

FOOTPRINTS IN THE SEA

Underwater scenes of Cousteau's Diving Saucer, Deep Jeep, Morey, and CURV showing capabilities of each submersible.

Movie, 16 mm, color, sound, 1966

Running time: 26 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs of your Naval District*

When requesting, refer to MN-10314

Price: Available on free loan

VIEWING NOTES:

* Addresses on page 97

ICEBERG OF STEEL

Shows Blue Water II, a type of drilling rig, the greater part of which is submerged for better stability at sea.

Movie, 16 mm, color, sound,
1965

Running time: 12 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

MARINE CORROSION

Explains how corrosion occurs in the marine environment and how its effects can be minimized.

Movie, 16 mm, B&W, sound,
1953

Running time: 13 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Institute of Marine Science
University of Miami
Rickenbacker Causeway
Virginia Key
Miami, Fla. 33149

Price: Available on free loan

VIEWING NOTES:

MINERALS FROM THE SEA

Discusses the presence of minerals in sea water, their commercial exploitation, and some of their uses.

Movie, 16 mm, B&W, sound, 1953

Running time: 14 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Institute of Marine Science
University of Miami
Rickenbacker Causeway
Virginia Key
Miami, Fla. 33149

Price: Available on free loan

VIEWING NOTES:

NEW WATER FOR A THIRSTY WORLD

Emphasizes the value of water in general and the growing needs of industry, agriculture, and population centers. A number of possible solutions is offered to remedy the situation, all of which involve conversion of sea water to fresh water at low cost (sea water electrofreezing, reverse osmosis, vapor compression, distillation, etc.).

Movie, 16 mm, color, sound, 1965

Running time: 21 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Sterling Educational Films, Inc.
241 East 34th Street
New York, N.Y. 10016

Price: Available on free loan

VIEWING NOTES:

OCEAN ENGINEERING

Is concerned with the application of engineering approaches to the solution of oceanographic problems. Introduces the most significant research tools developed in recent years: platforms, buoys, undersea research vehicles, etc. Also indicates what engineering requirements are necessary for exploitation of the oceans and what opportunities the oceans offer to engineers. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

OCEANOGRAPHY AT WORK. DIAMONDS UNDER THE SEA

Shows the complexity of preliminary operations necessary before diamonds can be exploited from the ocean bottom off the coast of South Africa (surveying, charting, collecting of geological samples by divers, and drilling).

Movie, 16 mm, B&W or color, sound, 1965

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Coronet Instructional Films
Coronet Building
65 East South Water Street
Chicago, Ill. 60601

Price: B&W $135.00
Color $270.00

VIEWING NOTES:

OIL FROM BENEATH THE SEA

A historical account of the progress of well drilling and well completion in the sea floor. Also shows pipe laying techniques.

Movie, 16 mm, color, sound, 1966

Running time: 10 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

1,000 FEET DEEP FOR SCIENCE

Depicts the diving operations of the Cousteau Diving Saucer off the Coast of Southern California. Explains launch and retrieval procedures for the Cousteau Diving Saucer; shows *in situ* pictures of the Scripps Canyon to depths of 1,000 feet.

Movie, 16 mm, color, sound, 1965

Running time: 27 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Visual Communication Dept.
Westinghouse Electric Corp.
3 Gateway Center
Pittsburgh, Pa. 15222

Price: Available on free loan

VIEWING NOTES:

PAX ATOMIS – SNAP 7 TERRESTRIAL ISOTOPIC POWER SYSTEMS

Illustrates some of the possible uses of unattended power systems, buoys, lighthouses, weather stations, deep-sea beacons, and offshore oil platforms. Construction and installation of units which provide electric power from heat generated by decay of radioisotopes are also depicted.

Movie, 16 mm, color, sound,
1965

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public
(Available at popular or professional level)

OBTAINABLE FROM:
Audio Visual Branch
Division of Public Information
U.S. Atomic Energy Commission
Washington, D.C. 20545

Price: Available on free loan

VIEWING NOTES:

PIPELINES IN THE SEA

Relates the laying of the first underwater pipelines from the Molino gas field to onshore facilities.

Movie, 16 mm, color, sound,
1964

Running time: 15 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

PLOWSHARE

Explores the possibilities of nuclear explosives for peaceful purposes, showing how their enormous power can be used for mining minerals or excavating channels, harbors, etc., for projects that would be otherwise impossible or impractical.

Movie, 16 mm, color, sound,
1965

Running time: 28 minutes

Audience: Secondary schools
Colleges
General public
(Available at popular or professional level)

OBTAINABLE FROM:
Audio Visual Branch
Division of Public Information
U.S. Atomic Energy Commission
Washington, D.C. 20545

Price: Available on free loan

VIEWING NOTES:

POINT LOMA

Shows how a hydraulic model can assist engineers in making decisions for the best type of ship mooring facilities. Effects of various types of waves are demonstrated on a projected floating causeway, breakwater, small craft landing area, and sewer outfall pier.

Movie, 16 mm, B&W, sound,
1964

Running time: 13 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Director
U.S. Army Engineer Waterways Experiment Station
P.O. Box 631
Vicksburg, Miss. 39180

Price: Available on free loan

VIEWING NOTES:

PROBLEM AT PORT WASHINGTON

Shows a scale model of Port Washington used to study wave action on harbor facilities. Illustrates means by which storm damage can be reduced. Mechanically produced waves are used to demonstrate wind effects. Presents model experiments which resulted in the design of an efficient jetty for the protection of Port Washington Harbor and also in considerable money saving.

Movie, 16 mm, B&W, sound, 1951

Running time: 10 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Director
U.S. Army Engineer Waterways
Experiment Station
P.O. Box 631
Vicksburg, Miss. 39180

Price: Available on free loan

VIEWING NOTES:

PROTECTION OF MOORING BUOYS

Demonstrates the effectiveness of a variety of protective anticorrosion and antifouling coatings and techniques on 15 test buoys after a 6-month exposure to sea water. Also shows all the operations connected with the problem of mooring, retrieving, and cleaning buoys.

Movie, 16 mm, color, sound, 1961

Running time: 45 minutes (one 30- and one 15-minute reel)

Audience: Specialists

OBTAINABLE FROM:
National Association of
Corrosion Engineers
980 M & M Building
1 Main Street
Houston, Tex. 77002

Price: Available on free loan

VIEWING NOTES:

RIG WITH A VIEW

Tells the story of Shell's discovery of oil in Cook Inlet, Alaska.

Movie, 16 mm, color, sound, 1964

Running time: 10 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

SEALAB I

Describes the Navy's first attempt to maintain personnel on the sea floor. Presents the problems of lowering and raising the SEALAB I structure, the installations, living conditions aboard, and work performed.

Movie, 16 mm, color, sound, 1965

Running time: 29 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10100

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

THE ALUMINAUT

Gives developmental background and shows fabrication stages and operation of the ALUMINAUT, one of the largest and deepest diving research vehicles available to date.

Movie, 16 mm, color, silent, narration available, 1964

Running time: 25 minutes

Audience: Colleges
Engineers

OBTAINABLE FROM:
Mr. William H. Ailor
Reynolds Metal Company
Metallurgical Research Division
4th and Canal Street
Richmond, Va., 23218

Price: Available on free loan

VIEWING NOTES:

THE CALCULATED RISK

Shows the gamut of activities involved in the search for oil under water. A concession is obtained, specialized equipment is constructed, living facilities are created on a desert island, wells are drilled, pipelines are laid on the ocean bottom, etc.

Movie, 16 mm, color, sound, 1952

Running time: 28 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Radim Films, Inc.
220 West 42nd Street
New York, N.Y. 10036

Price: $265.00

VIEWING NOTES

THE FIRST OCEAN DRILLING

The Director of Project MOHOLE, Willard Bascom, presents the highlights of this exciting drilling venture. The scientific and technological benefits of the enterprise are briefly discussed.

Movie, 16 mm, color, sound, 1966

Running time: 25 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Ocean Science & Engineering, Inc.
4905 Del Ray Avenue
Bethesda, Md. 20014

Price: Available on free loan

VIEWING NOTES:

THE FIVE-THOUSAND-TON KEY

Describes the search for offshore oil and gas from the building of a huge submersible drilling rig to the handling of gas piped along the ocean floor to a manmade island.

Movie, 16 mm, color, sound, 1959

Running time: 10 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Kerr-McGee Corporation
Kerr-McGee Bldg.
Oklahoma City, Okla. 73102

Price: Available on free loan

VIEWING NOTES:

THE MONSTER BUOY

Presents the largest buoy constructed to date. Demonstrates its capabilities for oceanographic work and its ability to operate in the roughest weather.

Movie, 16 mm, color, sound, 1968

Running time: 11 minutes

Audience: Engineers
Colleges
General public

OBTAINABLE FROM:
Hal H. Peyer
Convair Division of General Dynamics
P.O. Box 1128
San Diego, Calif. 92112

Price: Available on free loan

VIEWING NOTES:

THE NUCLEAR SHIP "SAVANNAH"

Covers the historical background, design, construction, launching, sea trials, and first voyage of the N.S. SAVANNAH, the world's first nuclear-powered merchant ship.

Movie, 16 mm, color, sound, 1964

Running time: 28 minutes

Audience: Secondary schools
Colleges
General public
(Available at popular or professional level)

OBTAINABLE FROM:
Audio Visual Branch
Division of Public Information
U.S. Atomic Energy Commission
Washington, D.C. 20545

Price: Available on free loan

VIEWING NOTES:

THE STORY OF SEALAB II

Covers the many activities associated with the SEALAB II experiments, relating in detail the main points of this complex attempt to colonize the continental shelf.

Movie, 16 mm, color, sound, 1966

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10100B

Price: Available on free loan

VIEWING NOTES:

TIDAL POWER

Records study made by the United States and Canada on the economic feasibility of employing tidal power for electrical energy in the areas around Passamaquoddy and Cobscook Bays in Maine and New Brunswick, Canada. Includes a tour of project sites with explanations of the project.

Movie, 16 mm, color, sound, 1959

Running time: 22 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Division Engineer
U.S. Army Engineer Division
New England
424 Trapello Road
Waltham, Mass, 02154

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

UNDERWATER PHOTOGRAPHY

Dr. Edgerton presents his automatic underwater camera and pinger and demonstrates their use. Presents the difficulties and problems encountered in obtaining photographs of the sea bottom.

Movie, 16 mm, B&W, sound, 1964

Running time: 29 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
W G B H
328 Main Street
Cambridge, Mass. 55413

Price: B&W $60.00

VIEWING NOTES:

UNDERWATER SEARCH

Reviews the development of drilling techniques as the search for oil takes drilling crews farther away from land. Many current types of platforms, barges, etc., are described.

Movie, 16 mm, color, sound, 1967

Running time: 23 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Film Library
Shell Oil Company
450 North Meridian Street
Indianapolis, Ind. 46204

Price: Available on free loan

VIEWING NOTES:

VOICE BENEATH THE SEA

Gives a brief review of the progress of telephone communication. Presents step-by-step production of an underwater cable. Shows in detail the laying of cable between Clarenville, Canada, and Oban, Ireland. Emphasizes the communication aspect.

Movie, 16 mm, color, sound, 1956

Running time: 28 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Local Bell System representative or affiliated company

Price: Available on free loan

VIEWING NOTES:

V. GEOLOGY

PROJECT MOHOLE

GALVESTON ISLAND BARRIER SANDS

Shows the history of development of Galveston Island, one of a chain of barrier island sand bodies along the South Texas coast. Animation and natural photography demonstrate the formation processes and the three-dimensional depositional framework of the island, which provide clues for locating similar potential reservoir sand bodies in ancient rocks.

Movie, 16 mm, sound, color, 1967

Running time: 28 minutes

Audience: College geology students
Professional geological societies

OBTAINABLE FROM:
Modern Talking Picture Service
4084 Westheimer Road
Houston, Tex. 77027

Price: Available on free loan

VIEWING NOTES:

GEOLOGICAL OCEANOGRAPHY

Describes the continental shelf, the continental slope, and the deep ocean basins. Explains topography of the sea floor, sediments, and may other significant features. Discusses various theories on the formation of sea mounts. Turbidity currents are also presented. Accompanied by a narrative booklet and glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Seconday schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $60.00

VIEWING NOTES:

HISTORY LAYER BY LAYER

Shows how ocean bottom sediments can serve as a continuous record of the earth's history and how the presence and nature of fossils provide clues to temperatures of the past. After a detailed explanation of the piston corer and its use as a tool to gather samples of sediments, this film shows how the obtained cores are analyzed to furnish information about our planet and the evolution of life.

Movie, 16 mm, color, sound, 1967

Running time: 23 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $100.00
Color $195.00

VEIWING NOTES:

MODERN GEODETIC SURVEYING

Shows the techniques used for measuring distances and determining the shape of the earth.

Movie, 16 mm, color, sound, 1968

Running time: 20 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10203

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

OCEANOGRAPHERS, EXPLORERS OF THE SEA

Describes a cruise on which geologists are looking for clues on the formation of the Caribbean Sea. Each scientist is concerned with a different aspect of the research project. This film shows what takes place during a typical oceanographic expedition and explains why the solution of some of the problems is so important. (Not previewed).

Movie, 16 mm, color, sound, 1968

Running time: Approx. 20 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Universal Education and Visual Arts
221 Park Avenue South
New York, N.Y. 10003

Price: Approx.$200.00 (depending on final length)

VIEWING NOTES:

OCEANOGRAPHY; SCIENCE OF THE SEA

Introduces some of the techniques and concepts used in our effort to learn about the oceans and especially about their geology.

Movie, 16 mm, B&W or color, sound, 1962

Running time: 10 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Film Associates of California
11014 Santa Monica Boulevard
Los Angeles, Calif, 90025

Price: B&W $60.00
Color $120.00

VIEWING NOTES:

PROJECT MOHOLE BLUEPRINT FOR DISCOVERY

Gives history of the MOHOLE Project. Shows special features of the ship, drilling and coring operations, core extracting techniques, current studies, and radioactivity and temperature measurements.

Movie, 16 mm, color, sound, 1962

Running time: 26 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
International Film Bureau
332 South Michigan Avenue
Chicago, Ill. 60604

Price: $155.00

VIEWING NOTES:

PROJECT MOHOLE—PHASE ONE

Relates the Project MOHOLE story, giving the background of the project and its purpose. Drilling operations are presented in some detail, showing the first 1,200-foot core obtained from the ocean floor.

Movie, 16 mm, color, sound, 1959

Running time: 20 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
The American Petroleum Institute
Committee on Public Affairs
1271 Avenue of the Americas
New York, N.Y. 10020

Price: Available on free loan

VIEWING NOTES:

PROJECT MOHOLE REPORT NUMBER ONE

After briefly presenting the case of the MOHOLE Project, examines in some detail the operations connected with the selection of a site. Four oceanographic vessels make a concerted study requiring profiling of the ocean bottom, collecting of core samples, and gathering of seismic records.

Movie, 16 mm, color, sound, 1959

Running time: 19 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Educational Testing Service
20 Nassau Street
Princeton, N.J. 08540

or

4640 Hollywood Boulevard
Los Angeles, Calif. 90027

Price: $150.00

VIEWING NOTES:

STATION 307

Demonstrates how scuba divers from the CALYPSO obtain geological samples from the sea floor as part of an oil exploration program in the Persian Gulf. Related operations and techniques are presented in a brief and informal manner.

Movie, 16 mm, B&W, sound, 1954

Running time: 20 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
Radim Films, Inc.
220 West 42nd Street
New York, N.Y. 10036

Price: $115.00

VIEWING NOTES:

THE BAHAMAS: WHERE LIMESTONES GROW TODAY

Tells about limestone reservoirs showing their deposits and formations in the Bahama Islands. Various depositions are explored and explained--reefs, lime muds, and the oolitic sands.

Movie, 16 mm, sound, color, 1952

Running time: 40 minutes

Audience: College geology students
Geological societies

OBTAINABLE FROM:
Modern Talking Picture Service*

Price: Available on free loan

VIEWING NOTES:

THE BEACH—A RIVER OF SAND

Shows seasonal variations in the beach profile and effects of waves and currents on the beach configuration. Time-lapse photography and model experiments demonstrate how sand beaches are created and how they can be destroyed; the influence of manmade construction is also brought into focus.

Movie, 16 mm, B&W or color, sound, 1965

Running time: 20 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $135.00
Color $265.00

VIEWING NOTES:

*List of distribution centers on page 98

THE EARTH BENEATH THE SEA

Covers the techniques used to determine the configuration of the ocean floor and its nature. Typical features of the relief are illustrated by means of a precision depth-recorder strip. Also shows use of bottom photographs as a means to supplement other information, the sampling of the bottom by using a dredge and a coring device, how a magnetometer can help map the earth's crust, and how all data obtained contribute to preparation of a three-dimensional model of the bottom.

Movie, 16 mm, B&W or color, sound, 1967

Running time: 29 minutes

Audience: Elementary schools
Secondary schools
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $110.00
Color $210.00

VIEWING NOTES:

THE LAND BENEATH THE SEA

Concerns itself with all main features of the sea floor and describes their characteristics.

Movie, 16 mm, color, sound, 1967

Running time: 24 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10280

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

VOLCANO SURTSEY

Provides the first photographic record of the birth and growth of a shield volcano in the sea. Documents all phases of this exciting phenomenon that happened near Iceland in 1963.

Movie, 16 mm, color, sound, 1966

Running time: 26 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
North Shore News Co., Inc.
Mt. Vernon Street
Lynn, Mass. 01901

Price: $300.00

VIEWING NOTES:

WHAT'S UNDER THE OCEAN

Presents underwater scenes taken in shallow water and from a bathyscaph. Shows use of some oceanographic instruments. Demonstrates the main features of the sea floor by using topographic models of the Atlantic and Pacific Oceans. Introduces oceanography, especially geological oceanography.

Movie, 16 mm, B&W or color, sound, 1959

Running time: 13 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Film Associates of California
11014 Santa Monica Boulevard
Los Angeles, Calif. 90025

Price: B&W $ 75.00
Color $150.00

VIEWING NOTES:

VI. PHYSICS

BAY OF FUNDY

AIR SEA INTERACTION

Helps the student appreciate the mass and energy exchange between atmosphere and ocean, illustrating the processes involved and the importance of salt particle movements from sea to air. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $ 60.00

VIEWING NOTES:

IDENTIFICATION OF SEA ICE

Gives basis for identification of sea ice by showing the various stages of its formation. Provides brief but complete coverage of main types of sea ice. Well edited and clearly explained; best to be used, however, in conjunction with a lecture or preparatory instructions.

Movie, 16 mm, color, sound, 1953

Running time: 12 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-7419B

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

INTRODUCTION TO UNDERWATER SOUND

Reviews basic elements of sound. Demonstrates reverberation types, temperature effects, and Doppler effects. Introductory film, geared to sonar operations.

Movie, 16 mm, B&W, sound, 1959

Running time: 20 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-8857

Price: Available on free loan

VIEWING NOTES:

MIGHTY CURRENTS OF THE SEA

Explains in general terms the causes of currents and the instruments used to measure them. Points out the importance of ocean currents by demonstrating the influence of the Gulf Stream on the world climate. Best used to illustrate a lecture; must be accompanied by comments.

Film strip, color, silent (67 frames), 1962

Running time: Undetermined

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Life Filmstrips
Time & Life Building
Rockefeller Center
New York, N.Y. 10020

Price: $6.00

VIEWING NOTES:

*Addresses on page 97

OCEANOGRAPHIC STUDIES OFF GEORGE'S BANK

Demonstrates techniques of current measurement by means of radio signals from a current meter anchored to a buoy. Includes underwater scenes showing the effect of waves on behavior of the current meter and its impeller, also formation of ripple marks on the sea bottom and sand migration under the influence of waves. Can be used to support lectures.

Movie, 16 mm, color, sound, 1958

Running time: 15 minutes

Audience: Secondary schools
Colleges

OBTAINABLE FROM:
Environmental Science Services Administration
Washington Science Center
Rockville, Md. 20852

When requesting, refer to:
P-1056-25

Price: Available on free loan

VIEWING NOTES:

OCEAN TIDES; BAY OF FUNDY

Presents the spectacular tidal phenomena in the Bay of Fundy. Shows the tidal bore in the Petitcodiac River and the reversing of rapids of the Saint John River.

Movie, 16 mm, B&W or color, sound, 1956

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $ 62.50
Color $125.00

VIEWING NOTES:

PHYSICAL OCEANOGRAPHY

Describes the ocean in movement: the various types of waves, including surface waves and internal waves, tides, their formation and variation. The general circulation of the ocean and its relation to water density and temperature are discussed in detail. Explains the Coriolis effect. Accompanied by a narrative booklet and a glossary.

Film strip, 35 mm, color, narrated on a record (70 frames), 1966

Running time: 15 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Encyclopaedia Britannica Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: $ 60.00

VIEWING NOTES:

SEA SURFACE METEOROLOGY

Laboratory experiments demonstrate the role played by the ocean in the formation of rain, especially the importance of jet drops in forming sea-salt condensation nuclei, which then carry electrical charges into the atmosphere. High-speed and close-up photography greatly enhance these phenomena.

Movie, 16 mm, B&W, sound, 1965

Running time: 24 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Modern Learning Aids*

or

Universal Education and Visual Arts
221 Park Avenue South,
New York, N.Y. 10003

Price: MLA : $130.00
UEVA: $105.00

VIEWING NOTES:

*List of distribution centers on page 98

SURFACE [illegible]AVES

Reviews elementary characteristics of waves by using wave tanks and artifacts. Demonstrates waves in shallow and deep water, long waves, standing waves, wave breaking, and dampening effect of wave filters. Absence of sound track considerably lessens the interest in this otherwise valuable film. Best used to accompany a series of lectures on waves.

Movie, 16 mm, color, silent, 1952

Running time: 20 minutes

Audience: Secondary schools
Colleges

OBTAINABLE FROM:
St. Anthony Falls Hydraulic Laboratory
University of Minnesota
Mississippi River at 3rd Avenue, S.E.
Minneapolis, Minn. 55455

Price: $130.00

VIEWING NOTES:

THE OCEAN CURRENTS

By means of laboratory experiments, illustrates the basic principles governing current movements and general circulation of the oceans.

Movie, 16 mm, B&W or color, sound, 1963

Running time: 17 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $ 95.00
Color $120.00

VIEWING NOTES:

TIDES AND CURRENTS

Describes tidal phenomena, reviews tide-producing forces and their infuence, tide-recording instruments, and tide-predicting machines. Gives a brief coverage of tidal currents and their measurements. Useful as an introduction to the subject. Could be profitably used to illustrate a lecture.

Movie, 16 mm, color, sound,
1958

Running time: 15 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Environmental Science
Services Administration
Washington Science Center
Rockville, Md. 20852

When requesting, refer to:
P-1056-24

Price: Available on free loan

VIEWING NOTES:

TIDES OF THE OCEAN

Presents the main tidal phenomena and illustrates the concepts by use of animated drawings. Unusually lucid explanations.

Movie, 16 mm, color, sound,
1964

Running time: 16 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Academy Films
748 North Seward Street
Hollywood, Calif. 90038

Price: $ 165.00

VIEWING NOTES:

TIME LAPSE OF ANTARCTIC ICE FLOES AND TIDAL CURRENTS

Presents a year-long record, taken at Wilkes Station, of the movements of ice floes in and out of Newcomb Bay. Demonstrates that ice floe movements follow the same pattern as the currents, irrespective of wind speed and direction. Also shows many cloud formations and the changes they undergo with time, as well as the progressive freezing and thawing of ice in the Bay.

Movie, 16 mm, color, sound, 1962

Running time: 26 minutes

Audience: Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10152

Price: Available on free loan

VIEWING NOTES:

TSUNAMI

Presents the operation of a tsunami detection and warning system. Shows how tsunamis originate and how their effects can be minimized. Some scenes of actual tsunamis add to the interest of the film.

Movie, 16 mm, color, sound, 1965

Running time: 28 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Environmental Science
Services Administration
Washington Science Center
Rockville, Md. 20852

Price: Available on free loan

VIEWING NOTES:

*Addresses on page 97

UNDERWATER SOUND—BASIC PRINCIPLES

Covers the basis physical principles of sound transmission under water--absorption, scattering, bottom loss, refraction.

(Not proviewed.)

Movie, 16 mm, color, sound, 1968

Running time: 28 minutes

Audience: Colleges
Secondary schools
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10287

Price: Available on free loan

VIEWING NOTES:

VERMILION SEA EXPEDITION: HYDROGRAPHIC WORK

Presents the field and laboratory methods used during a research expedition to obtain information on water temperature, salinity, and oxygen content. Knowledge of these water properties is necessary for understanding the movements of water masses and also the geological and biological environments.

Movie, 16 mm, color, sound, 1964

Running time: 13 minutes

Audience: Secondary schools
General public

OBTAINABLE FROM:
Film Sales Division
Extension Media Center
University of California
2223 Fulton Street
Berkeley, Calif. 94720

Price: $ 122.00

VIEWING NOTES:

*Addresses on page 97

WATER MASSES OF THE OCEAN

Provides excellent coverage of all the oceanographic concepts associated with water masses. Causes of circulation patterns are reviewed. Convergences and divergences, seasonal variations of temperature and salinity, and properties of water masses are considered and their distributions introduced. Effects of bottom topography on water movements are explained.

Movie, 16 mm, color, sound, 1967

Running time: 45 minutes (in two reels)

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Assistant for Public Affairs
of your Naval District*

When requesting, refer to:
MN-10064, Parts I and II

Price: Available on free loan

VIEWING NOTES:

WAVES ACROSS THE PACIFIC

After providing background information, shows how physical oceanographers study the processes by which wave energy is lost. By using ultrasensitive pressure sensors which recorded the passage of Antarctic storm waves, Dr. Munk and his group obtained measurements at six different stations located across the Pacific from New Zealand to Alaska and determined that attenuation results from wave interaction.

Movie, 16 mm, B&W or color, sound, 1967

Running time: 30 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
McGraw-Hill Text-Films
330 West 42nd Street
New York, N.Y. 10036

Price: B&W $130.00
Color $260.00

VIEWING NOTES:

*Addresses on page 97

WAVES ON WATER

Concerns effects of wind on water, wave motion, energy transport, dissipation of energy, bending and breaking of waves, causes and damages of tsunamis.

Movie, 16 mm, B&W or color, sound, 1965

Running time: 16 minutes

Audience: Secondary schools
Colleges
General public

OBTAINABLE FROM:
Encyclopaedia Britannica
Films, Inc.
425 North Michigan Avenue
Chicago, Ill. 60611

Price: B&W $102.50
Color $200.00

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